### Genebanks From Around the World Stand United as New Seeds are Added to the Svalbard Global Seed Vault

**Longyearbyen, Svalbard Archipelago, Norway, 28 May 2024** – The Svalbard Global Seed Vault welcomes shipments from four new depositors as the world's largest repository of crop diversity raises the number of the samples in its care to 1.29 million during its second opening this year.

A total of 20,720 seed samples from 15 genebanks join hundreds of thousands of others stored in the snow-covered vault on the remote northern Norwegian island of Spitsbergen, where valuable collections of crop diversity are preserved to ensure that the world's agriculture is future-proofed for the benefit of all humanity.

Scientists and breeders rely on crop diversity conserved in genebanks to develop new varieties of crops that can withstand the effects of climate change. The seeds stored at the Seed Vault serve as a back-up to collections held elsewhere.

For 16 years, the Svalbard Global Seed Vault has been steadily expanding its family of seed depositors, which back up their seed collections in case of unforeseen crises, such as war, civil strife, financial woes or natural disasters.

The Seed Vault operates through a partnership between the Norwegian Ministry of Agriculture and Food, the Nordic Genetic Resource Center (NordGen) and the Crop Trust.

### **Future and Climate-proofing Our Food System**

Earlier this month, a survey of the world's leading climate scientists found that almost 80 percent of respondents expect at least 2.5 degrees Celsius of global heating above pre-industrial levels this century, well above the targeted threshold of 1.5 degrees set in the Paris Agreement on climate change. But climate change is not a problem of tomorrow: unprecedented heat, drought and floods in southern Africa and elsewhere are already highlighting the dangers to food production due to a changing climate. Crop diversity – that can be saved in the form of seeds in genebanks, in addition to other methods – offers options so that plant breeders can develop new, more resilient and productive varieties that are nutritious and delicious, and adapted to local preferences, environments and challenges.

Genebanks in Armenia, Benin and Indonesia join the Seed Vault's ranks of depositors for the first time thanks to the support provided by the Biodiversity for Opportunities, Livelihoods and Development (BOLD) project, a 10-year initiative launched in 2021. BOLD is funded by the Government of Norway to strengthen food and nutrition security worldwide through the conservation and use of crop diversity.

"Being a part of BOLD has been instrumental in advancing our conservation efforts," says Standy Christianto, Program Manager of Indonesia's Borneo Institute, which included rice varieties of great cultural significance to the Dayak people from Borneo among the 294 seed samples of rice, cowpea, eggplant and maize the NGO is backing up in the Seed Vault.

"[BOLD] has provided knowledge, resources, and networking opportunities that have strengthened our capabilities and impact in preserving genetic diversity for future generations," he said.

### **Four New Depositors Send Safety Duplicates**

Besides the Borneo Institute, other first time deposits come from the Agrobiotechnology Scientific Center of the Armenian National Agrarian University Foundation, which sent seeds of wild wheat varieties endemic to Armenia, and two institutions in Benin. The Laboratory of Genetics, Biotechnology and Seed Sciences at the University of Abomey-Calavi and the Institut National des Recherches Agricoles du Benin (INRAB) are sending seeds of nationally-important vegetables, cereals and legumes.

Nigeria's National Centre for Genetic Resources and Biotechnology (NACGRAB) expands its back-up collection with seeds of eight species, including sorghum, pearl millet and cowpea. NACGRAB is one of five African national partners in the Crop Trust's Seeds for Resilience project, which began in 2019 and is funded by the Government of the Federal Republic of Germany.

"It is so energizing to see how our support to genebanks, big and small, strengthens their efforts in safeguarding and making available the crop diversity we all need to adapt our agriculture to the unknown threats and challenges of tomorrow," says Stefan Schmitz, Executive Director of the Crop Trust.

"Safety duplication is a must, and it doesn't happen overnight. It is great to see old friends from CGIAR, such as the International Potato Center (CIP) and the International Center for Agricultural Research in the Dry Areas (ICARDA), adding to their back-up collections. We are proud to provide long-term support to these and many other genebanks; thanks to the generous support of our donors, this vital work continues. But there is still much to be done."

The largest deposits at today's opening come from the World Vegetable Centre (WorldVeg, based in Taiwan), followed by the National Agrobiodiversity Center (South Korea), and ICARDA (based in Lebanon).

### **World Food Prize Recognizes Seed Vault Visionaries**

Today's opening comes just weeks after the announcement that two key figures involved in the creation of the Svalbard Global Seed Vault will receive the 2024 World Food Prize. On 9 May, the foundation that confers the award named Geoffrey Hawtin and Cary Fowler as this year's laureates in recognition of "their extraordinary leadership in preserving and protecting the world's heritage of crop biodiversity and mobilizing this critical resource to defend against threats to global food security."

Before the Seed Vault first opened its frosty doors in 2008, Fowler chaired the Norwegian government's committee—of which Hawtin was also a member—that assessed the feasibility of the proposed facility. Fowler then served for nine years as chair of the Seed Vault's International Advisory Council. Meanwhile, Hawtin helped develop the technical, management and policy specifications for the Seed Vault, which were used by the Norwegian government in its construction and operation.

"The seeds that are in there are the history of agriculture," Fowler said, according to the World Food Prize Foundation. "So, what they really represent is the experiences that our crops have had over twelve to fifteen thousand years."

Both men also played important roles in shaping the early years of the Crop Trust, with Fowler succeeding Hawtin in the top management position of the organization in 2004.

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For interview requests and media inquiries, please visit our Press page or contact us at: <a href="mailto:media@croptrust.org">media@croptrust.org</a>

### **Additional quotes:**

### Lise Lykke Steffensen, CEO of NordGen, said:

"When it comes to conserving crop diversity crucial for our future food production, we're running against time. Climate change is upon us and

agricultural biodiversity is vital for both climate adaptation and mitigation. We are therefore immensely grateful for the increased interest among genebanks worldwide to back up their seed collections in Svalbard and happy to welcome four new depositors. To carry those seeds and place them on the frozen shelves of the Seed Vault is our honor as the operational manager of the facility."

### Geoffrey Hawtin, co-recipient of the 2024 World Food Prize, said:

"With an annual running cost of about USD 300,000, the Svalbard Global Seed Vault must rank among the world's best insurance policies."

# Andreas Melikyan, Agrobiotechnology Scientific Center of the Armenian National Agrarian University Foundation, said:

"I feel a great professional responsibility and satisfaction that an opportunity was created to preserve the seeds of more than 60 important plant species found in a small area of Armenia."

# Enoch G. Achigan-Dako, Head of the Genetics, Biotechnology and Seed Science Unit, Faculty of Agricultural Sciences, University of Abomey-Calavi

"If there is a place in the world where we are sure our germplasm can be secured forever, then that place is the Svalbard Global Seed Vault. Just after Svalbard, another batch will be deposited at IITA in Nigeria. These duplicates can still be repatriated in case our locally maintained accessions are lost."

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#### **Notes to the Editor**

The full list of the 15 depositors that are delivering unique seed varieties to Longyearbyen can be found below:

	Seed deposits May 2024				
		Country	Accessions	Boxes	Crops
1	National Agrobiodiversity Center	South Korea	4,000	7	43 species/subspecies
2	World Vegetable Centre	Taiwan	4,800	10	135 species/subspecies
3	Seed Savers Exchange	USA	38	1	20 species, vegetables and legumes
4	Taiwan Agricultural Research Institute	Taiwan	170	1	Foxtail millet

5	Barley and Wild Plant Resources Center, Okayama University	Japan	654	1	Wild barley relatives
6	Spanish Plant Genetic Resource Centre	Spain	208	2	39 species, vegetables, legumes, cereals, herbs
7	CIP (CGIAR)	Peru	215	1	77 species/subspecies of Solanum and Ipomoea
8	IHAR	Poland	850	2	Wheat and tomato species/subsp.
9	ICARDA (CGIAR)	Lebanon	3,752	8	178 species/subspecies
	BOLD project partners				
10	Borneo Institute (new)	Indonesia	294	1	Oryza, Vigna, Zea and Solanum ferox
11	Agrobiotechnology Scientific Center, Armenian National Agrarian University Foundation (new)	Armenia	1,865	2	63 species/subspecies, cereals and legumes
12	Laboratory of Genetics, Biotechnology and Seed Sciences (new)	Benin	2,701	8	27 species/subspecies
13	Institut National des Recherches Agricoles du Benin (new)	Benin	324	2	Rice, pearl millet, Sorghum and maize
14	Malaysian Agricultural Research and Development Institute	Malaysia	207	1	rice
	Seeds for Resilience project partner				
15	NACGRAB	Nigeria	642	2	8 species, mostly Sorghum, pearl millet and vigna beans
	Total		20,720	49	

## Learn more from the Seed Vault official website: <a href="www.seedvault.no">www.seedvault.no</a> **About the Norwegian Ministry of Agriculture and Food**

The Norwegian Ministry of Agriculture and Food is the legal and administrative body of the Seed Vault and has the overall responsibility for its management, security and funding. The Ministry has assigned Statsbygg, the key adviser on construction and property to the Norwegian Government to be responsible for

the construction and maintenance of the Seed Vault. For more information see <a href="https://www.regjeringen.no">www.regjeringen.no</a>

#### **About NordGen**

NordGen is the Nordic countries' genebank and knowledge center for genetic resources. As the operational manager of the Seed Vault, NordGen is responsible for handling the seeds inside the Seed Vault; communicating with genebanks; and maintaining a publicly accessible online database with information on the seed samples stored in the Seed Vault (seedvault.nordgen.org). Read more about Nordgen at <a href="https://www.nordgen.org/en">www.nordgen.org/en</a>

### **About the Crop Trust**

The Crop Trust is an international organization working to conserve crop diversity and thus protect global food and nutrition security. At the core of Crop Trust is an endowment fund dedicated to providing guaranteed long-term financial support to key genebanks worldwide. The Crop Trust supports the Svalbard Global Seed Vault and coordinates large-scale projects worldwide to secure crop diversity and make it available for use, globally forever and for the benefit of everyone. The Crop Trust is recognized as an essential element of the funding strategy of the International Treaty on Plant Genetic Resources for Food and Agriculture. Learn more at <a href="https://www.croptrust.org">www.croptrust.org</a>